

Understanding the Nematode Assay Report

www.ncagr.com/agronomi/nemhome.htm

Steve Troxler, Commissioner of Agriculture



This information is a guide to interpreting your report. An example assay, recommendations and explanations are below. For additional assistance, contact your NCDA&CS regional agronomist or call the Agronomic Division at the phone number above.

Nematologist's Comments Comments regarding assay results Root-knot, soybean cyst, sting and stunt nematodes were found from this assay. Root-knot nematode can cause severe damage to tomato. Chemical treatment before planting is necessary. If the alterante crop soybean is grown again, root-knot, soybean cyst and sting populations are high enough to cause considerable damage. Rotation, or use of a nematicide or resistant variety, is recommended in this field next year. Please contact your NCDA&CS regional agronomist for field management assistance. Field 001 Recommendations **Hazard Index** Nematodes/500 cc Soil Nematode # Primary and alternate crop Nematode # Nematode: Nematode Action Root Knot 890@ Nema Soybean Root Stunt 1100 Soybean Cyst 180@ Last Crop Next Crop Codes Notes Knot Crop Cyst Sting 130@ sovbean . 12 tomato 60-85 Sting tomato. 2-4, 2-5 60-100 C, D and E soybean 10-50 35-100 soybean.

Action Codes

- A The kinds/number of nematodes detected in this assay should not affect production of indicated crop.
- B Nematodes could damage indicated crop. Chemical treatment may be beneficial, especially in unfavorable growing conditions.
- C Nematode populations are high enough to cause substantial damage to the indicated crop. Apply a chemical soil treatment.
- D Use a nematode-resistant variety.
- E Rotate with nonhost crops.

Nema Notes

If Nema Notes are listed, they will have been mailed with your report. These notes provide useful information about the nematodes detected in the asssay.

Nema Notes are also available online at www.ncagr.com/ agronomi/ pubs.htm#nnotes.

Hazard Index

The hazard index expresses the potential for nematode damage on a 0–100 scale. The potential is defined as follows:

Hazard Index	Potential for Damage
0–19	Very Low
20-39	Low
40–59	Moderate
60–79	High
80-100	Very High

For example, a 60–100 hazard index under "Sting" across from "soybean" indicates the potential for damage to soybean by sting nematodes at a population of 130 as being "high" to "very high."

Assay Results

These numbers indicate the nematode counts used to determine the recommendations and calculate the hazard index. Only those nematode counts marked with the @ symbol pose a threat to the crop. Unmarked counts do not pose a threat to the next crop listed. The hazard index clarifies the degree of any potential threat.